

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)
 U.S. DEPARTMENT OF COMMERCE
 PATENT AND TRADEMARK OFFICE
 LIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)
 Date Submitted to PTO: December 20, 2005

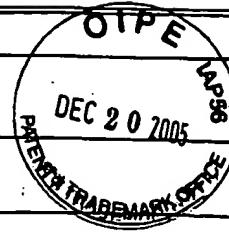
ATTY DOCKET NO.
 99_1174

SERIAL NO.
 09/422,804

APPLICANT
 Edwin Southern

FILING DATE
 October 22, 1999

GROUP
 1631



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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JFB</i>	62	4,689,405	8/1987	Frank et al.			
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<i>no relevance</i>	3	Bird & Bird, Notice to Admit Facts, in the United Kingdom litigation between Oxford Gene Technology (OGT) v. Affymetrix, case no. HC 1999 04645, pages 1-5, January 28, 2000, London, United Kingdom.
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Jack S. Bruce

DATE CONSIDERED

5 February 2006

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	6	Richard Meade, Bristows, Statement of Reasons, in the United Kingdom litigation between Oxford Gene Technology (OGT) v. Affymetrix, case no. HC 1999 04645, pages 1-4, June 30, 2000, London, United Kingdom.
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EXAMINER

Jeffrey Brown

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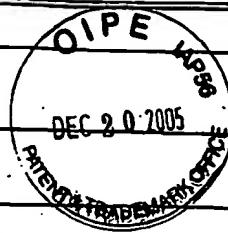
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<i>no</i>	15	Dr. David R. Bentley, Expert Report of Dr. David Bentley, in the United Kingdom litigation between Oxford Gene Technology (OGT) v. Affymetrix, case nos. HC 1999 04645 and HC 1999 02517, pages 1A-1F, pages 1-124, January 30, 2001, London, United Kingdom.					
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EXAMINER <i>Johs. Brusca</i>				DATE CONSIDERED <i>5 February 2006</i>			

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	18	Dr. David R. Bentley, Annex 3 to Expert Report of Dr. David Bentley, in the United Kingdom litigation between Oxford Gene Technology (OGT) v. Affymetrix, case nos. HC 1999 04645 and HC 1999 02517, pages 1-2, January 30, 2001, London, United Kingdom.							
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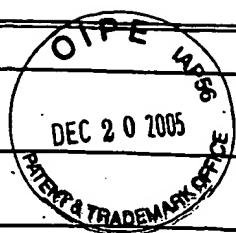
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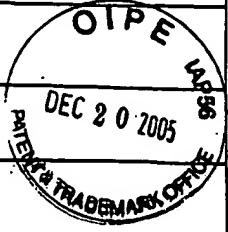
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67	Bird and Bird, Notice of Opposition, in the Opposition Proceedings against EP No. 0 619 321 filed by Oxford Gene Technology, pp. 1-15, Oct. 1999, London, United Kingdom.
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71	Grant Morgan, Expert Report of Grant Morgan, in the United States litigation between Oxford Gene Technology (OGT) v. Affymetrix, U.S. District Court for the District of Delaware, CA No. 99-348, pp. 1-15, August 2000, Atascadero, California.
72	Dr. Elias Corey, Expert Report of Dr. Elias James Corey, in the United States litigation between Oxford Gene Technology (OGT) v. Affymetrix, U.S. District Court for the District of Delaware, CA No. 99-348, pp. 1-10, August 2000, Wilmington, Delaware.
73	Dr. James Wetmur, Expert Report of Dr. James G. Wetmur, in the United States litigation between Oxford Gene Technology (OGT) v. Affymetrix, U.S. District Court for the District of Delaware, CA No. 99-348, pp. 1-29, August 2000, Wilmington, Delaware.
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EXAMINER

W.S. Bruce

DATE CONSIDERED

5 February 2006

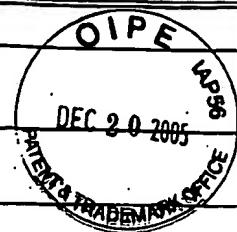
Sheet 11 of 17

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: December 20, 2005

ATTY DOCKET NO.
99_1174SERIAL NO.
09/422,804APPLICANT
Edwin SouthernFILING DATE
October 22, 1999GROUP
1631

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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	76	Dr. James Wetmur, Expert Rebuttal Report of Dr. James G. Wetmur, in the United States litigation between Oxford Gene Technology (OGT) v. Affymetrix, U.S. District Court for the District of Delaware, CA No. 99-348, pp. 1-45, September 2000, Palo Alto, California.
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	78	Dr. Elias Corey, Declaration of Dr. Elias James Corey in Support of Affymetrix' Opposition to OGT's Motion for Summary Judgment of Validity, in the United States litigation between Oxford Gene Technology (OGT) v. Affymetrix, U.S. District Court for the District of Delaware, CA No. 99-348, p. 1, September 2000, Cambridge, Massachusetts.
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<i>JEB</i>	81	Wada A., Abstracts of Presentations at International Workshop on Automatic and High Speed DNA Base Sequencing, pp. 2-11, July 7-9, 1987, Okayama, Japan.
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DATE CONSIDERED

5 February 2006

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<i>no copy provided</i>	92	File wrapper of S.N. 07/593,589 now abandoned. <i>filing date 02 October 1990, Dattagupta et.al.</i>					
<i>JBS</i>	93	File wrapper of S.N. 07/772,625 maturing into US 5,348,855 on September 1994 to Dattagupta et al., <i>filing date 04 October 1991</i>					
EXAMINER	<i>JBS. Brusco</i>			DATE CONSIDERED	<i>5 February 2006</i>		

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Sheet 13 of 17		INFORMATION DISCLOSURE STATEMENT						
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<i>JBS</i>	94	Sproat, B. et al., "A new linkage for solid phase synthesis of oligonucleotides", Nucleic Acids Research, Vol. 13, No. 8, pp. 2979-2987, 1985.						
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<i>JBS</i>	97	Atkinson, T., "A convenient procedure for the synthesis of oligodeoxyribonucleotide affinity columns for isolation of mRNA", Nucleic Acids Research, Vol. 16, No. 13, p. 6232, 1988.						
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<i>no publisher</i>	100	Blank Rome LLP, OGT's Technology Tutorial, in the United States litigation between Oxford Gene Technology (OGT) v. Mergen Ltd et al., U.S. District Court for the District of Delaware, CA No. 02-1695, pp. 1-28, December 2003, Wilmington, Delaware.						
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<i>no publisher</i>	103	Kirkland & Ellis LLP, Letter to Perkins Coie LLP enclosing OGT's Claim Terms, in the United States litigation between Oxford Gene Technology (OGT) v. Mergen Ltd et al., U.S. District Court for the District of Delaware, CA No. 02-1695, pp. 1-6, April 2004, Chicago, Illinois.						
EXAMINER	<i>JBS, Bruce</i>			DATE CONSIDERED <i>5 February 2006</i>				

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	105	Dr. Paul Purdue, Expert Report of Paul Edward Purdue Ph.D., in the United States litigation between Oxford Gene Technology (OGT) v. Mergen Ltd et al., U.S. District Court for the District of Delaware, CA No. 02-1695, pp. 1-10, May 2004, New York, NY.
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5 February 2006

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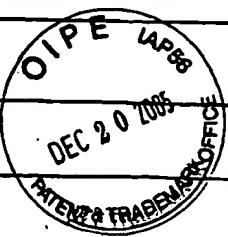
Sheet 15 of 17		INFORMATION DISCLOSURE STATEMENT					
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	119	Blank Rome LLP, Letter to Judge Jordan re claim terms, in the United States litigation between Oxford Gene Technology (OGT) v. Mergen Ltd et al., U.S. District Court for the District of Delaware, CA No. 02-1695, pp. 1-2, January 2005, Wilmington, Delaware.					
EXAMINER		<i>J. S. Bruce</i>					
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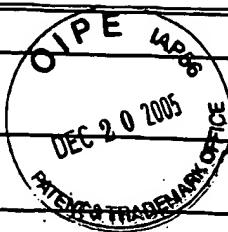
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>no publisher</i>	120	Order of the U.S. District Court on Mergen's Motion for Reconsideration, in the United States litigation between Oxford Gene Technology (OGT) v. Mergen Ltd et al., U.S. District Court for the District of Delaware, CA No. 02-1695, pp. 1-5, January 2005, Wilmington, Delaware.					
<i>JBS</i>	121	Khrapko, K. et al., "An oligonucleotide hybridization approach to DNA sequencing", FEBS, Vol. 256, Nos. 1-2, pp. 118-122, October 1989.					
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<i>no publisher</i>	126	Brinks Hofer Gilson & Lione, Motorola's Response Markman Brief, Exhibits A-Z, the United States litigation between Oxford Gene Technology (OGT) v. Motorola, Inc., U.S. District Court for the Northeastern District of Illinois, CA No. 02-9344, pp. 1-195, January 2004, Chicago, Illinois.					
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EXAMINER	<i>Jess. Bruno</i>			DATE CONSIDERED <i>5 February 2006</i>			

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	130	Michael Best & Friedrich LLP, OGT's Exhibit A Claim Chart, in the United States litigation between Oxford Gene Technology (OGT) v. Motorola, Inc., U.S. District Court for the Northeastern District of Illinois, CA No. 02-9344, pp. 1-10, March 2004, Chicago, Illinois.					
	131	Michael Best & Friedrich LLP, OGT's Exhibit 1-9, in the United States litigation between Oxford Gene Technology (OGT) v. Motorola, Inc., U.S. District Court for the Northeastern District of Illinois, CA No. 02-9344, pp. 1-139, March 2004, Chicago, Illinois.					
<i>no publisher</i>	132	Michael Best & Friedrich LLP, OGT's Exhibit H-R, in the United States litigation between Oxford Gene Technology (OGT) v. Motorola, Inc., U.S. District Court for the Northeastern District of Illinois, CA No. 02-9344, pp. 1-222, March 2004, Chicago, Illinois.					
	133	Civil Docket for CA No. 99-0348, Oxford Gene Technology (OGT) v. Affymetrix, Inc., U.S. District Court for Delaware, pp. 1-36, April 2005, Wilmington, Delaware.					
<i>no publisher</i>	134	Civil Docket for CA No. 02-1695, Oxford Gene Technology (OGT) v. Mergen, Ltd., U.S. District Court for Delaware, pp. 1-31, April 2005, Wilmington, Delaware.					
	135	Civil Docket for CA No. 04-0013, Oxford Gene Technology (OGT) v. Telechem International, Inc., U.S. District Court for Delaware, pp. 1-7, April 2005, Wilmington, Delaware.					
	136	Civil Docket for CA No. 02-1687, Oxford Gene Technology (OGT) v. Nanogen, Inc., U.S. District Court for Delaware, pp. 1-5, April 2005, Wilmington, Delaware.					
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<i>JBS</i>	AA	4,216,245	8/1980	Johnson	427	2			
<i>JBS</i>	AB	4,395,486	7/1983	Wilson et al.	435	6			
<i>JBS</i>	AC	4,563,419	1/1986	Ranki et al.	435	6			
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<i>JBS</i>	AD	0 235 726	9/1987	EP					
<i>JBS</i>	AE	0 171 150	2/1986	EP					
<i>JBS</i>	AF	85/01051	3/1985	WO					
<i>JBS</i>	AG	0 268 237	5/1988	EP					
	AH								
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AI	Declaration from Radomir Crkvenjakov (with four exhibits), September 1996.							
	AJ	Declaration from Ivan Labat , September 1996.							
<i>no publisher</i>	AK	Statement from the Institute of Molecular Genetics and Genetic Engineering (IMGGE) in Belgrade, September 1996.							
	AL	Statement by Professor Roger Ekins (with an abstract of a lecture given by him on 4/11/88 at a symposium, and a post-published paper corresponding to said lecture), December 1996.							
	AM	Statutory Declaration of Dr. Nicholas Vaughan Ashely (with Exhibit NVA1), May 1995.							
	AN	Statutory Declaration of Dr. William Bains (with Exhibits WB1, WB2 and WB3), May 1995.							
EXAMINER	<i>JBS, Bansa</i>			DATE CONSIDERED <i>5 February 2006</i>					

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JBS</i>	BA	4,704,353	11/1987	Humphries et al.	435	4	
<i>JBS</i>	BB	4,327,073	4/1982	Huang	424	1	
<i>JBS</i>	BC	4,728,502	3/1988	Hamill	422	116	
<i>JBS</i>	BD	5,002,867	3/1991	Macevicz	435	6	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JBS</i>	BE	88/01302	2/1988	WO			
<i>JBS</i>	BF	86/03782	7/1986	WO			
<i>JBS</i>	BG	0 238 332	9/1987	EP			
<i>JBS</i>	BH	2 156 074	10/1985	GB			
<i>JBS</i>	BI	0 237 362	9/1987	EP			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BJ	Declaration of Professor Lubert Stryer, January 1997.					
	BK	Statutory Declaration of Dr. William Bains, January 1997.					
<i>no publisher</i>	BL	Statutory Declaration of Dr. Nicholas Vaughan Ashley, January 1997.					
<i>no publisher</i>	BM	Declaration of Edwin Mellor Southern (with Exhibits EMS1 and EMS2), January 1998.					
	BN	Declaration of Dr. Thomas Gingeras, January 1999.					
	BO	Declaration of Professor Calvin Quate, January 1999.					
EXAMINER	<i>JBS</i>			DATE CONSIDERED <i>5 February 2006</i>			

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<i>JBS</i>	CA	5,202,231	4/1993	Drmanac et al.	435	6	
<i>JBS</i>	CB	5,474,796	12/1995	Brennan	427	2.13	
<i>JBS</i>	CC	5,429,807	7/1995	Matson et al.	422	131	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JBS</i>	CD	89/11548	11/1989	WO			
<i>JBS</i>	CE	93/22480	11/1993	WO			
<i>JBS</i>	CF	0 386 229	9/1990	EP			
<i>JBS</i>	CG	0 281 927	9/1988	EP			
<i>JBS</i>	CH	0 130 739	1/1985	EP			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	CI	Declaration of Dr. Glenn Mc Gall, January 1999.
<i>no relevance</i>	CJ	Declaration of Edwin Mellor Southern, July 2001.
	CK	Bird & Bird, "Claimant's Notice of Experiments", In the United Kingdom Litigation between Oxford Gene Technology (OGT) v. Affymetrix, case no. HC 1999 02517, pp. 1-12, July 31, 2000, London, United Kingdom.
	CL	Declaration of Marvin Stodolsky, October 1996.
<i>JBS</i>	CM	M. S. Urdea et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum", Gene, Vol. 61, 1987, pp. 253-264.
<i>JBS</i>	CN	C. G. Miyada et al., "Oligonucleotide Hybridization Techniques", Methods in Enzymology, Vol. 154, No. 6, 1987, pp. 94-107.

EXAMINER

JBS - Brusca

DATE CONSIDERED

5 February 2005

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JB	DA	4,591,570	5/1986	Chang	436	518	
	DB						
	DC						

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
JB	DD	0 228 075	7/1987	EP			
JB	DE	84/03151	8/1984	WO			
JB	DE	0 194 132	9/1986	EP			
JB	DG	0 063 810	11/1982	EP			
JB	DH	0 130 523	1/1985	EP			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

JB	DK	E. Calva et al., "Analysis of the in vitro Synthesis of 5'- γ - ³² P-labeled Transcripts from Coliphage λ by Gel Electrophoresis, RNA-DNA Hybridization, and RNase T1 Digestion", <i>The Journal of Biological Chemistry</i> , Vol. 255, No. 22, 1980, pp. 11011-11016.
JB	DJ	A. R. Dunn et al., "A Novel Method to Map Transcripts: Evidence for Homology between an Adenovirus mRNA and Discrete Multiple Regions of the Viral Genome", <i>Cell</i> , Vol. 12, September 1977, pp. 23-36.
JB	DK	G. Wengler et al., "A Study of Nucleotide Sequence Homology Between the Nucleic Acids of Different Alphaviruses", <i>Virology</i> , Vol. 78, No. 1, 1977, pp. 124-134.
JB	DL	J. M. Coffin et al., "Structure of the Genome of Moloney Murine Leukemia Virus: A Terminally Redundant Sequence" <i>Cell</i> , Vol. 13, No. 4, April 1978, pp. 761-773.
JB	DM	A. Palva et al., "Laboratory Methods, Quantification of α -Amylase mRNA in <i>Bacillus subtilis</i> by Nucleic Acid Sandwich with Hybridization", <i>DNA</i> , Vol. 7, No. 2, 1988, pp. 135-142.
JB	DN	R. Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method", abstract presented at Cold Spring Harbor Symposium on Gene Mapping and Sequencing, April 27-May 1, 1988, Cold Spring Harbor, NY.

EXAMINER

John Brusse

DATE CONSIDERED

5 February 2006

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	EA						
	EB						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JEB</i>	EC	0 142 299	5/1985	EP			
<i>JEB</i>	ED	86/06487	11/1986	WO			
<i>JEB</i>	EE	84/03564	9/1984	WO			
<i>JEB</i>	EF	86/00991	2/1986	WO			
<i>JEB</i>	EG	92/10092	6/1992	WO			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JEB</i>	EH	R. Drmanac et al., "Sequencing by Hybridization , Theory of the Method", poster presented at Cold Spring Harbor Symposium on Gene Mapping and Sequencing, April 27-May 1, 1988, Cold Spring Harbor, NY.					
<i>JEB</i> <i>prob 1/5/88</i>	EI	I. Labat, "Subfragments as an informative characteristic of the DNA molecule - computer simulation", Search Report, Labat Thesis, (and English translation), 1988.					
<i>JEB</i>	EJ	R. Frank et al., "Simultaneous Synthesis and Biological Applications of DNA Fragments: An Efficient and Complete Methodology", Methods in Enzymology, Vol. 154, No. 13, 1987, pp. 221-251.					
<i>JEB</i>	EK	R. Frank et al., "A new general approach for the simultaneous chemical synthesis of large number of oligonucleotides: segmental solid supports", Nucleic Acids Research, Vol. 11, No. 13, 1983, pp. 4365-4377.					
<i>JEB</i>	EL	A. R. Brautigam et al., "Rapid Typing of Herpes Simplex Virus Isolates by Deoxyribonucleic Acid: Deoxyribonucleic Acid Hybridization", Journal of Clinical Microbiology, Vol. 12, No. 2, August 1980, pp. 226-234.					
<i>JEB</i>	EM	R. K. Saiki et al., "Analysis of Enzymatically Amplified β -globin and HLA-DQ α DNA with Allele-Specific Oligonucleotide Probes", Nature, Vol. 324, November 1986, pp. 163-166.					
EXAMINER	<i>Jeb S. Briner</i>			DATE CONSIDERED	<i>5 February 2006</i>		

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	FA						
	FB						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JBS</i>	FC	0 305 929	3/1989	EP			
<i>JBS</i>	FD	0 304 202	2/1989	EP			
	FE						
	FF						
	FG						
OTHER DOCUMENT(S) (<i>Including Author, Title, Date, Pertinent Pages, Etc.</i>)							
<i>JBS</i>	FH	A. Rosenthal et al., "Solid-phase methods for sequencing of nucleic acids I. Simultaneous sequencing of different oligodeoxyribonucleotides using a new, mechanically stable anion-exchange paper", Nucleic Acid Research, Vol. 13, No. 4, November 4, 1985, pp. 1173-1184.					
<i>JBS</i>	FI	B. Lewin, Ed., "Genes", Third Edition, 1987, pp. 360-362, John Wiley & Sons, NY, NY.					
<i>JBS</i>	FJ	R. B. Wallace et al., "Hybridization of Synthetic Oligodeoxyribonucleotides to O_x 174 DNA: The Effect of Single Base Pair Mismatch", Nucleic Acids Research, Vol. 6, No. 11, 1979, pp. 3543-3557.					
<i>JBS</i>	FK	G. Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods", Methods in Enzymology, Vol. 100, No. 19, 1983, pp. 266-285.					
<i>JBS</i>	FL	Doklady Biochemistry, Proceedings of the Academy of Sciences of the USSR, Biochemistry Section, Russian Original, Vol. 303, No. 1-6, November-December 1988, pp. 355-452 and Translation from Russian, Consultants Bureau, New York, Plenum Publishing Corporation, 1989, pp. 436-438.					
<i>JBS</i>	FM	F. C. Kafatos et al., "Determination of Nucleic Acid Sequence Homologies and Relative Concentrations by a dot Hybridization Procedure", Nucleic Acids Research, Vol. 7, No. 6, 1979, pp. 1541-1552.					
EXAMINER	<i>JBS. Brusas</i>			DATE CONSIDERED	<i>5 February 2006</i>		

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	GA						
	GB						
	GC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	GD						
	GE						
	GF						
	GG						
	GH						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JB</i>	GI	R. J. Lipshutz et al., "Using Oligonucleotide Probe Arrays to Access Genetic Diversity", BioTechniques, Vol. 19, No. 3, 1995, pp. 442-447.					
<i>JB</i>	GJ	T. R. Gingeras et al., "Hybridization Properties of Immobilized Nucleic Acid", Nucleic Acids Research, Vol. 15, No. 13, 1987, pp. 5373-5390.					
<i>JB</i>	GK	P.T. Gilham, "The Synthesis of Polynucleotide-Celluloses and Their use in the Fractionation of Polynucleotides", J. Am. Chem. Soc., Vol. 86, November 20, 1964, pp. 4982-4985.					
<i>JB</i>	GL	H. M. Geysen et al., "Strategies for Epitope Analysis using Peptide Synthesis", Journal of Immunological Methods, Vol. 102, 1987, pp. 259-274.					
<i>JB</i>	GM	G. M. Church et al., "Genomic Sequencing", Proc. Natl. Acad. Sci., Vol. 81(7), April 1984, pp. 1991-1995.					
<i>JB</i>	GN	V. J. Kidd et al., "α ₁ -Antitrypsin Deficiency Detection by Direct Analysis of the Mutation in the Gene", Nature, Vol. 304, July 1983, pp. 230-234.					
EXAMINER	<i>JC Brusas</i>			DATE CONSIDERED <i>5 February 2006</i>			

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	HA						
	HB						
	HC						
	HD						
FOREIGN PATENT DOCUMENTS							
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	HE						
	HF						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JB</i>	HG	P. Masinkowski et al., "Cloning of cDNA Sequences of Hormone-regulated Gene from the MCF-7 Human Breast Cancer Cell Line", Nucleic Acids Research, Vol. 10, No. 24, 1982, pp. 7895-7903.					
<i>JB</i>	HH	G. K. Sim et al., "Use of a cDNA Library for Studies on Evolution and Development Expression of the Chorion Multigene Families", Cell, Vol. 18, No. 4, December 1979, pp. 1303-1316.					
<i>JB</i>	HH	Margaret L. M. Anderson et al., "Quantitative Filter Hybridisation", Nucleic Acid Hybridisation, A Practical Approach, 1985, pp. 73-111, IRL Press, Washington, D.C.					
<i>JB</i>	HJ	W. Bains et al., "A Novel Method for Nucleic Acid Sequence Determination", J. Theor. Biol., Vol. 135, 1988, pp. 303-307.					
<i>JB</i>	HK	U. B. Voss et al., "The Immobilization of Oligonucleotides and Their Hybridization Properties", Biochemical Society Transactions, Vol. 16, 1988, pp. 216-217.					
<i>JB</i>	HL	Ghosh et al., "Covalent Attachment of oligonucleotides to Solid Supports", Nucleic Acids Research, Vol. 15, No. 13, 1987, pp. 5353-5372.					
<i>JB</i>	HM	<i>Arnold, et al.</i> Federation Proceedings, Vol. 43, No. 7, May 4, 1984, Abstract 3669. "A novel universal support for DNA and RNA synthesis"					
<i>JB</i>	HN	T. Maniatis et al., "Molecular Cloning", A Laboratory Manual, Cold Spring Harbor Laboratory, 1982, p. 282, Cold Spring Harbor, NY.					
EXAMINER	<i>Jel Bruess</i>			DATE CONSIDERED <i>5 February 2006</i>			

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	IA						
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	IB						
OTHER DOCUMENT(S) (<i>Including Author, Title, Date, Pertinent Pages, Etc.</i>)							
<i>JB3</i>	IC	C. R. Cantor et al., "Report on the Sequencing by Hybridization Workshop", Genomics, Vol. 13, 1992, pp. 1378-1383.					
<i>JB3</i>	ID	T. L. Bugawan et al., "Rapid HLA-DLB Typing Using Enzymatically Amplified DNA and Nonradioactive Sequencing-Specific Oligonucleotide Probes", Immunogenetics, Vol. 32, 1990, pp. 231-241.					
<i>no author no publisher</i>	IE	Global Technology Group, Flier for PA Consulting Group, 1988.					
<i>JB3</i>	IF	Stephen P. A. Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis", Science, Vol. 251, February 15, 1991, pp. 767-773.					
<i>JB3</i>	IG	U. Maskos et al., "A Study of Oligonucleotide Reassociation using Large Arrays of Oligonucleotides Synthesised on a Glass Support", Nucleic Acids Research, Vol. 21, No. 20, 1992, pp. 4663-4669.					
<i>JB3</i>	IH	U. Maskos et al., "Parallel Analysis of Oligodeoxyribonucleotide (Oligonucleotide) Interactions. I. Analysis of Factors Influencing Oligonucleotide Duplex Formation", Nucleic Acids Research, Vol. 20, No. 7, 1992, pp. 1675-1678.					
<i>JB3</i>	II	J. C. Williams et al., "Studies of Oligonucleotide Interactions by Hybridisation to Arrays: The Influence of Dangling Ends on Duplex Yield", Nucleic Acids Research, Vol. 22, No. 8, 1994, pp. 1365-1367.					
<i>JB3</i>	IJ	E. M. Southern et al., "Arrays of Complementary Oligonucleotides for Analysing the Hybridisation Behaviour of Nucleic Acids", Nucleic Acids Research, Vol. 22, No. 8, 1994, pp. 1368-1373.					
<i>JB3</i>	IK	M. S. Shchepinov et al., "Steric Factors Influencing Hybridisation of Nucleic Acids to Oligonucleotide Arrays", Nucleic Acids Research, Vol. 25, No. 6, 1997, pp. 1155-1161.					
<i>JB3</i>	IL	S. C Case-Green et al., "Studies on the Base Pairing Properties of Deoxyinosine by Solid Phase Hybridisation to Oligonucleotides", Nucleic Acids Research, Vol. 22, No. 2, 1994, pp. 131-136.					
EXAMINER			<i>JL. Bures</i>		DATE CONSIDERED		

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	JA						
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	JB						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JG</i>	JG	U. Maskos et al., "A Novel Method for the Parallel Analysis of Multiple Mutations in Multiple Samples", Nucleic Acids Research, Vol. 21, No. 9, 1993, 2269-2270.					
<i>JG</i>	JD	M. J. Kozal et al., "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays", Nature Medicine, Vol. 2, No. 7, July 1996, pp. 753-759.					
<i>JG</i>	JE	M. Chee et al., "Accessing Genetic Information with High-Density DNA Arrays", Science, Vol. 274, October 1996, pp. 610-614.					
<i>JG</i>	JF	Kirk-Othmer, Encyclopedia of Chemical Technology, Third Edition, Vol. 3, pp. 487-491, 1978.					
<i>JG</i>	JG	Kirk-Othmer, Encyclopedia of Chemical Technology, Third Edition, Vol. 15, p. 224, 1981.					
<i>JG</i>	JH	R. Polsky-Cynkin et al., "Use of DNA Immobilized on Plastic and Agarose Supports to Detect DNA by Sandwich Hybridization", Clinical Chemistry, Vol. 31, No. 9, 1985, pp. 1438-1443.					
<i>JG</i>	JI	J. Welsh et al., "Protein-DNA Cross-Linking" TIBS, Vol. 9, December 1984, pp. 505-508.					
<i>JG</i>	JJ	G. H. Parsons, Jr., "Antibody-Coated Plastic Tubes in Radioimmunoassay", Meth., Enzymol., Vol. 73, 1973, pp. 224-238.					
<i>JG</i>	JK	Southern et al., Genomics, "Analyzing and Comprising Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides", Vol. 13, 1992, pp. 1008-1017.					
	JL						
EXAMINER	<i>Joh. Brusas</i>			DATE CONSIDERED	<i>5 February 2001</i>		

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<i>JGB</i>	KA	5,486,452	1/1996	Gordon et al.	435	5	
<i>JGB</i>	KB	4,994,373	2/1991	Stavrianopoulos et al.	435	6	
<i>JGB</i>	KC	4,968,602	11/1990	Dattagupta	435	6	
<i>JGB</i>	KD	4,961,915	10/1990	Martin	422	116	
<i>JGB</i>	KE	4,849,330	7/1989	Humphries et al.	435	4	
<i>JGB</i>	KF	4,451,433	5/1984	Yamashita et al.	422	63	
<i>JGB</i>	KG	5,202,231	4/1993	Drmanac	435	6	
<i>JGB</i>	KH	4,299,916	11/1981	Litman et al.	435	6	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>JGB</i>	KI	84/01031	3/1984	WO			YES NO
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>JGB</i>	KJ	Webster's Third New International Dictionary, G & C Merriam Company, Publishers, Springfield, Massachusetts, USA, 1966, pages with the definitions of the terms "solid" and "sheet".					
<i>JGB</i>	KK	The American Heritage Dictionary, Second College Edition, Houghton Mifflin Company, Boston, Massachusetts, 1991, page with the definition of the term "smooth".					
<i>JGB</i>	KL	The Dictionary of Ceramic Science and Engineering, Plenum Press, New York, NY, 1984 - definition of "smooth glass".					
<i>JGB</i>	KM	Academic Press Dictionary of Science and Technology, San Diego, CA , 1992 - definition of "smooth".					
<i>JGB</i>	KN	S. F. Wolf et al., "Rapid Hybridization Kinetics of DNA Attached to Submicron Latex Particles", Nucleic Acids Research, Vol. 15, No. 7, 1987, pp. 2911-2926.					
<i>JGB</i>	KO	J. N. Kremsky et al., "Immobilization of DNA via Oligonucleotides Containing an Aldehyde or Carboxylic Acid Group at the 5' Terminus", Nucleic Acids Research, Vol. 15, No. 7, 1987, pp. 2891-2909.					
EXAMINER	<i>JGB - Branca</i>			DATE CONSIDERED	<i>5 February 2006</i>		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: December 8, 2005			ATTY DOCKET NO. 99_1174	SERIAL NO. 09/422,804			
			APPLICANT Edwin SOUTHERN				
			FILING DATE October 22, 1999	GROUP 1631			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	LA						
	LB						
	LC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	LD						
	LE						
	LF						
	LG						
	LH						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	LI	Letter to Simon Kiddle from Dr. Renzo Malvano, November 2002.					
<i>no publisher</i>	LJ	Letter to Simon Kiddle from Dr. Gian Carlo Zucchelli, November 2002.					
	LK	Declaration of Professor Alberto Albertini, November 2002.					
<i>no publisher</i>	LL	Declaration of Dr. Gianni Messeri, November 2002.					
	LM	Second Statement of Professor Roger Ekhs, January 2003.					
EXAMINER	<i>JLS - Brusca</i>			DATE CONSIDERED <i>5 February 2006</i>			

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	MA						
	MB						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	MC						
	MD						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>no publisher</i>	ME	Slides used in Professor Ekins' lecture at the International Biotech RIA '88 Conference in Florence on 11 th April 1988.
<i>JEB</i>	MF	Lev. D. Gelb and K.E. Gubbins, "Characterization of Porous Glasses by Adsorption: Models, Simulations and Data Inversion", Fundamentals of Adsorption, Vol. 6, 1999, pp. 551-556.
<i>JEB</i>	MG	Pharmacia Catalogue 1998, page describing Hybond-NX.
<i>no publisher</i>	MH	Translation of EP A 0197266 filed for UK national validation, 1991.
<i>no publisher</i>	MI	E. M. Southern, Award Molecular Bioanalytics 2004, Biography.
<i>no publisher</i>	MJ	Award Molecular Bioanalytics 2004.
<i>JEB</i>	MK	Bio Array News, Vol. 1, No. 1, June 1, 2001, pp. 1-10.
<i>JEB</i>	ML	News Events, Journal of Biomolecular Techniques, Vol. 15, 2004, pp. 152-153.
EXAMINER	<i>Jeb. Brunet</i>	
	DATE CONSIDERED <i>5 February 2006</i>	

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